

**HOLOGRAPHIC RECORDING TECHNIQUES USING FIRST AND SECOND
PORTIONS OF A SPATIAL LIGHT MODULATOR**

ABSTRACT

5 The invention is directed to holographic recording techniques that generate a data
encoded object beam and a reference beam using a spatial light modulator of the holographic
recording system. An input light source, e.g., comprising laser light conditioned by optical
elements, can be used to illuminate the spatial light modulator. Different portions of the
spatial light modulator are used to create the data encoded object beam and the reference
10 beam, which are then made to interfere in a holographic medium to record a hologram.